RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: _09/752,957F_

Source: _/Fw/6_

Date Processed by STIC: _3/17/05_

ENTERED

RAW SEQUENCE LISTING   DATE: 03/17/2005
PATENT APPLICATION: **US/09/752,957F**   TIME: 09:50:25

Input Set : **A:\251410-1010.ST25.txt**
Output Set: **N:\CRF4\03172005\I752957F.raw**


```
 3 <110> APPLICANT: Shiuan, David
 5 <120> TITLE OF INVENTION: Yeast with High Biotin-Productivity and the Preparation
Method
 6       Thereof
 8 <130> FILE REFERENCE: 251410-1010
10 <140> CURRENT APPLICATION NUMBER: 09/752,957F
11 <141> CURRENT FILING DATE: 2001-01-02
13 <150> PRIOR APPLICATION NUMBER: TW 89120972
14 <151> PRIOR FILING DATE: 2000-10-07
16 <160> NUMBER OF SEQ ID NOS: 5
18 <170> SOFTWARE: PatentIn version 3.3
20 <210> SEQ ID NO: 1
21 <211> LENGTH: 1188
22 <212> TYPE: DNA
23 <213> ORGANISM: Candida utilis
25 <400> SEQUENCE: 1
26 atgtcgttta tattgactgc tattagtcgt ccgattgctc tttccacttc tagagtagct     60
28 tctagggcta ctctggcaac aggtgctact gctgctgcgg agatcttgga agatgtgttc    120
30 acggaacaaa tggaagaagt ggcttcacag gagaagaagc caaacccatt ggaatatgca    180
32 ttgtcagtga agacaccagt caacacctgg accaaagaag aaattaaagc tatatatgac    240
34 acaccactca tggacttgat gcactatgct caggtgcaac acagaaggtt ccaacaacct    300
36 tcagaggttc aattgtgcac tcttatgaat atcaaaactg gtggttgtac cgaggactgt    360
38 aagtactgtg cccaatcaca gcgttacaac actggtgtca aggctgaaag aatcatccaa    420
40 gttgatgagg tgattgaagc tgcaaaggag gcaaaggcca atggatctac aaggttctgt    480
42 atgggtgctg cttggagaga gatgaaaggt agaaagtcaa acttgaagaa aatcaaagag    540
44 atgatcactg ctgtccatga ccttggaatg gagagttgtg tcaccctggg aatggttgat    600
46 aaagaccaag ccactgaatt gaaaagtgct gggttgacgg cgtacaacca taacattgat    660
48 acttacaagg aacactatcc aaaggtgatc tccacaagaa gctttgatga tagattgaaa    720
50 acattcaaaa acgttcaagg atctggatta aaggcatgca caggtggtat tcttggtctt    780
52 ggtgagaccc aagaggaccg tgtatctttc ctctacacct tggccacaat ggatcagcat    840
54 ccagagtctc ttccaatcaa cagactggtc ccaatcaagg gcacgccaat gtatgaagaa    900
56 gttaagaaca agcaagttga agttgatgag attgtcagaa ccattgctac tgcaagattg    960
58 gtcatgccaa cgtctattat cagattggct gcaggaagat atacaatgaa agaggcagaa   1020
60 caggtgatgt gcttcatggc tggttgtaat gccatcttca caggtaagaa aatgctcaca   1080
62 acaatgtgta acggctggga tgaggataaa gccatgttgg ctaaatgggg tctgaaacca   1140
64 atggagagtt caaatacaa accaagggag gttgcattcg gtgcttga            1188
67 <210> SEQ ID NO: 2
68 <211> LENGTH: 30
69 <212> TYPE: DNA
70 <213> ORGANISM: artificial sequence
72 <220> FEATURE:
73 <223> OTHER INFORMATION: primer sequence
75 <400> SEQUENCE: 2
76 gaaagtcgac tcaagatctg tcgtacttaa                                       30
```

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 79 <210> SEQ ID NO: 3
 80 <211> LENGTH: 21
 81 <212> TYPE: DNA
 82 <213> ORGANISM: artificial sequence
 84 <220> FEATURE:
 85 <223> OTHER INFORMATION: primer sequence
 87 <400> SEQUENCE: 3
 88 ccgcagttaa atcgacaact g                                        21
 91 <210> SEQ ID NO: 4
 92 <211> LENGTH: 23
 93 <212> TYPE: DNA
 94 <213> ORGANISM: artificial sequence
 96 <220> FEATURE:
 97 <223> OTHER INFORMATION: primer sequence
100 <220> FEATURE:
101 <221> NAME/KEY: misc_feature
102 <222> LOCATION: (4)..(4)
103 <223> OTHER INFORMATION: n is a, c, g, or t
105 <220> FEATURE:
106 <221> NAME/KEY: misc_feature
107 <222> LOCATION: (6)..(6)
108 <223> OTHER INFORMATION: n is a, c, g, or t
110 <220> FEATURE:
111 <221> NAME/KEY: misc_feature
112 <222> LOCATION: (9)..(9)
113 <223> OTHER INFORMATION: R is A or G'
115 <220> FEATURE:
116 <221> NAME/KEY: misc_feature
117 <222> LOCATION: (12)..(12)
118 <223> OTHER INFORMATION: Y is T or C
120 <220> FEATURE:
121 <221> NAME/KEY: misc_feature
122 <222> LOCATION: (15)..(15)
123 <223> OTHER INFORMATION: Y is T or C
125 <220> FEATURE:
126 <221> NAME/KEY: misc_feature
127 <222> LOCATION: (18)..(18)
128 <223> OTHER INFORMATION: n is a, c, g, or t
130 <400> SEQUENCE: 4
W--> 131 tgtncngarg aytgyaanta ttg                                 23
134 <210> SEQ ID NO: 5
135 <211> LENGTH: 20
136 <212> TYPE: DNA
137 <213> ORGANISM: artificial sequence
139 <220> FEATURE:
140 <223> OTHER INFORMATION: primer sequence
143 <220> FEATURE:
144 <221> NAME/KEY: misc_feature
145 <222> LOCATION: (3)..(3)
```

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```
146 <223> OTHER INFORMATION: R is A or G'
148 <220> FEATURE:
149 <221> NAME/KEY: misc_feature
150 <222> LOCATION: (6)..(6)
151 <223> OTHER INFORMATION: n is a, c, g, or t
153 <220> FEATURE:
154 <221> NAME/KEY: misc_feature
155 <222> LOCATION: (8)..(8)
156 <223> OTHER INFORMATION: n is a, c, g, or t
158 <220> FEATURE:
159 <221> NAME/KEY: misc_feature
160 <222> LOCATION: (9)..(9)
161 <223> OTHER INFORMATION: R is A or G'
163 <220> FEATURE:
164 <221> NAME/KEY: misc_feature
165 <222> LOCATION: (12)..(12)
166 <223> OTHER INFORMATION: R is A or G'
168 <400> SEQUENCE: 5
W--> 169 gtrtcnanrt trtggttgta                                    20
```

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 03/17/2005
PATENT APPLICATION: **US/09/752,957F**   TIME: 09:50:26

Input Set : **A:\251410-1010.ST25.txt**
Output Set: **N:\CRF4\03172005\I752957F.raw**

<u>Please Note:</u>
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:4; N Pos. 4, 6, 18
Seq#:5; N Pos. 6, 8,

VERIFICATION SUMMARY   DATE: 03/17/2005
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L:131 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0
L:169 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0